DRW.120-OC14D, 14M, TAP-OFF FROM DOUBLE CIRCUIT INTERMEDIATE 0°-5° STRUCTURE TO SINGLE CIRCUIT BRANCH

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14D – 14 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 37
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
14	9	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
15	10	Anchor Shackle	20-SDMS-02	Fig. 20
16	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
18	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
19	3	Preformed Line Post Insulator Top Tie for Merlin with Armour	20-SDMS-02	Fig. 35
20	3	Preformed Armoured Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
21	1	Preformed Armoured Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
22	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
23	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
24	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
25	22M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
26	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
27	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
28	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.120A-OC14D, 14M, TAP-OFF FROM DOUBLE CIRCUIT INTERMEDIATE 0°-5° STRUCTURE TO S.C. BRANCH, MERLIN MAIN TO MERLIN TAP-OFF

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS	SDCS-01
	Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14D – 14 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 37
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07a	3	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
07b	3	Parallel Groove Compression Connector for Merlin – Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
14a	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14b	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
15	10	Anchor Shackle	20-SDMS-02	Fig. 20
16	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
18	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
19	3	Preformed Line Post Insulator Top Tie for Merlin with Armour	20-SDMS-02	Fig. 35
20	3	Preformed Armoured Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
21	1	Preformed Armoured Rods For 67.44mm2 ACSR (Quail)	20-SDMS-02	Fig. 38
22	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
23	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
24	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
25	22M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
26	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
27	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
28	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.120B-OC14D, 14M, TAP-OFF FROM DOUBLE CIRCUIT INTERMEDIATE 0°-5° STRUCTURE TO S.C. BRANCH MERLIN MAIN TO QUAIL TAP-OFF

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14D – 14 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 37
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Quail – Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
14	9	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
15	10	Anchor Shackle	20-SDMS-02	Fig. 20
16	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
18	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
19	3	Preformed Line Post Insulator Top Tie for Quail with Armour	20-SDMS-02	Fig. 35
20	3	Preformed Armoured Rods For 67.44mm2 ACSR/AW (Quail Main)	20-SDMS-02	Fig. 38
21	1	Preformed Armoured Rods For 67.44mm2 ACSR/AW (Quail Earth Wire)	20-SDMS-02	Fig. 38
22	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
23	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
24	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
25	22M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
26	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
27	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
28	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.120C-OC14D, 14M, TAP-OFF FROM DOUBLE CIRCUIT INTERMEDIATE 0°-5° STRUCTURE TO S.C. BRANCH QUAIL MAIN TO QUAIL TAP-OFF

Saudi Electricity Company الشركة السعودية للكهرباء

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SDCS-01

Dated: 24-06-2003

DRW.121-OC14D, 14M, TAP-OFF FROM DOUBLE CIRCUIT LIGHT ANGLE 6°-15° STRUCTURE WITH STAYS TO SINGLE CIRCUIT BRANCH

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

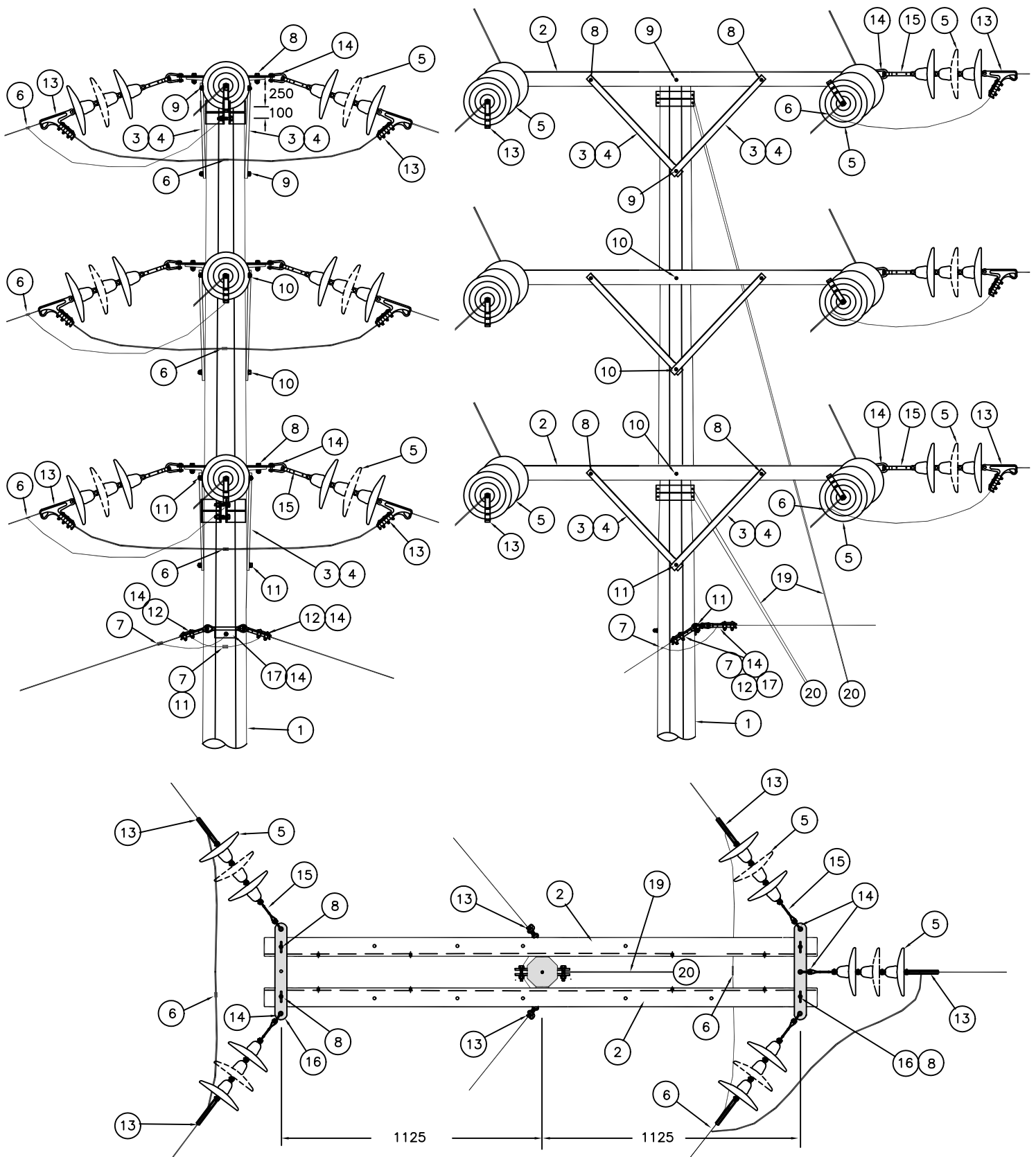
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14D – 14 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 37
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
14	9	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
15	10	Anchor Shackle	20-SDMS-02	Fig. 20
16	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
18	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
19	3	Preformed Line Post Insulator Side Tie for Merlin with Armour	20-SDMS-02	Fig. 35
20	3	Preformed Armoured Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
21	1	Preformed Armoured Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
22	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
23	27M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
24	1 Set	M.V.-D.C. Two Stay Assembly	20-SDMS-02	Drw. 303
25	1 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
26	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
27	22M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
28	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
29	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
30	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.121A-OC14D, 14M, TAP-OFF FROM DOUBLE CIRCUIT LIGHT ANGLE 6°-15° STRUCTURE W/STAYS TO S.C. BRANCH MERLIN MAIN & MERLIN TAP-OFF

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14D – 14 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 37
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07a	3	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
07b	3	Parallel Groove Compression Connector for Merlin – Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
14a	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14b	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
15	10	Anchor Shackle	20-SDMS-02	Fig. 20
16	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
18	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
19	3	Preformed Line Post Insulator Side Tie for Merlin with Armour	20-SDMS-02	Fig. 35
20	3	Preformed Armoured Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
21	1	Preformed Armoured Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
22	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
23	27M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
24	1 Set	M.V.-D.C. Two Stay Assembly	20-SDMS-02	Drw. 303
25	1 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
26	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
27	22M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
28	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
29	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
30	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.121B-OC14D, 14M, TAP-OFF FROM DOUBLE CIRCUIT LIGHT ANGLE 6°-15° STRUCTURE WITH STAYS TO S.C. BRANCH MERLIN MAIN TO QUAIL TAP-OFF

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14D – 14 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 37
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Quail – Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
14	9	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
15	10	Anchor Shackle	20-SDMS-02	Fig. 20
16	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
18	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
19	3	Preformed Line Post Insulator Side Tie for Quail with Armour	20-SDMS-02	Fig. 35
20	3	Preformed Armoured Rods For 67.44mm2 ACSR/AW (Quail Main)	20-SDMS-02	Fig. 38
21	1	Preformed Armoured Rods For 67.44mm2 ACSR/AW (Quail Earth Wire)	20-SDMS-02	Fig. 38
22	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
23	27M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
24	1 Set	M.V.-D.C. Two Stay Assembly	20-SDMS-02	Drw. 303
25	1 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
26	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
27	22M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
28	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
29	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
30	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.121C-OC14D, 14M, TAP-OFF FROM DOUBLE CIRCUIT LIGHT ANGLE 6°-15° STRUC. WITH STAYS TO S.C. BRANCH QUAIL MAIN TO QUAIL TAP-OFF

DRW.122-OC14D, 14M, TAP-OFF FROM DOUBLE CIRCUIT MEDIUM & HEAVY ANGLE 16°-90° STRUCTURE WITH STAYS TO SINGLE CIRCUIT BRANCH

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14D – 14 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 37
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	15 Set	Suspension Insulator	15-SDMS-01	Page 23
06	9	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
07	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
08	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
09	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	15	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	18	Anchor Shackle	20-SDMS-02	Fig. 20
15	15	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
17	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
18	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
19	58M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	2 Set	M.V.-D.C. Two Stay Assembly	20-SDMS-02	Drw. 307
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	22M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.122A-OC14D, 14M,TAP-OFF FROM D.C. MEDIUM & HEAVY ANGLE 16°-90° STRUCTURE W/STAYS TO S.C. BRANCH MERLIN MAIN TO MERLIN TAP-OFF

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14D – 14 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 37
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	15 Set	Suspension Insulator	15-SDMS-01	Page 23
06a	6	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
06b	3	Parallel Groove Compression Connector for Merlin – Quail	20-SDMS-02	Fig. 39
07	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
08	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
09	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13a	12	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13b	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	18	Anchor Shackle	20-SDMS-02	Fig. 20
15	15	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
17	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
18	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
19	58M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	2 Set	M.V.-D.C. Two Stay Assembly	20-SDMS-02	Drw. 307
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	22M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.122B-OC14D,14M, TAP-OFF FROM D.C. MEDIUM & HEAVY ANGLE 16°-90° STRUCTURE WITH STAYS TO S.C. BRANCH MERLIN MAIN TO QUAIL TAP-OFF

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Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14D – 14 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 37
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	15 Set	Suspension Insulator	15-SDMS-01	Page 23
06	9	Parallel Groove Compression Connector for Quail – Quail	20-SDMS-02	Fig. 39
07	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
08	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
09	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	15	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	18	Anchor Shackle	20-SDMS-02	Fig. 20
15	15	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
17	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
18	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
19	58M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	2 Set	M.V.-D.C. Two Stay Assembly	20-SDMS-02	Drw. 307
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	22M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.122C-OC14D, 14M,TAP-OFF FROM D.C. MEDIUM & HEAVY ANGLE 16°-90° STRUCTURE W/STAYS TO S.C. BRANCH QUAIL MAIN TO QUAIL TAP-OFF

DRW.123-OC14D, 14M, TAP-OFF FROM DOUBLE CIRCUIT SECTION STRUCTURE WITH STAYS TO SINGLE CIRCUIT BRANCH

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14D – 14 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 37
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	15 Set	Suspension Insulator	15-SDMS-01	Page 23
06	9	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
07	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
08	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
09	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	15	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	18	Anchor Shackle	20-SDMS-02	Fig. 20
15	15	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	58M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
19	1 Set	M.V.-D.C. Section Stay Assembly	20-SDMS-02	Drw. 308
20	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	22M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.123A-OC14D, 14M, TAP-OFF FROM DOUBLE CIRCUIT SECTION STRUC. WITH STAYS TO S.C. BRANCH MERLIN MAIN TO MERLIN TAP-OFF

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14D – 14 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 37
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	15 Set	Suspension Insulator	15-SDMS-01	Page 23
06a	6	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
06b	3	Parallel Groove Compression Connector for Merlin – Quail	20-SDMS-02	Fig. 39
07	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
08	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
09	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13a	12	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13b	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	18	Anchor Shackle	20-SDMS-02	Fig. 20
15	15	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	58M	Stay Wire 7/4, 12mm2 Dia. HDG Steel, UTS 101kN (Min)		
19	1 Set	M.V.-D.C. Section Stay Assembly	20-SDMS-02	Drw. 308
20	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	22M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.123B-OC14D, 14M, TAP-OFF FROM DOUBLE CIRCUIT SECTION STRUC. WITH STAYS TO S.C. BRANCH MERLIN MAIN TO QUAIL TAP-OFF

Saudi Electricity Company الشركة السعودية للكهرباء

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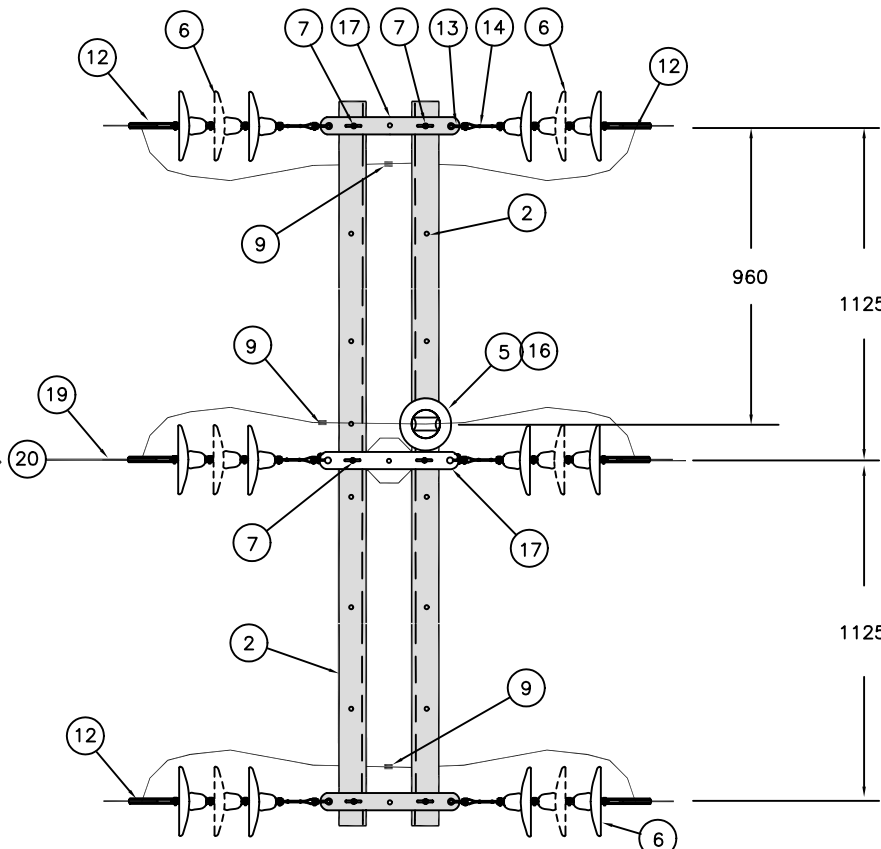
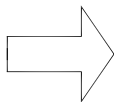
Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14D – 14 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 37
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	15 Set	Suspension Insulator	15-SDMS-01	Page 23
06	9	Parallel Groove Compression Connector for Quail – Quail	20-SDMS-02	Fig. 39
07	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
08	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
09	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x310mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	15	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	18	Anchor Shackle	20-SDMS-02	Fig. 20
15	15	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	58M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
19	1 Set	M.V.-D.C. Section Stay Assembly	20-SDMS-02	Drw. 308
20	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	22M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.123C-OC14D, 14M, TAP-OFF FROM DOUBLE CIRCUIT SECTION STRUC. WITH STAYS TO S.C. BRANCH QUAIL MAIN TO QUAIL TAP-OFF

SINGLE CIRCUIT TAP-OFF DIRECTION

SINGLE CIRCUIT NORMAL SPAN DIRECTION

DRW.124-OC14D, 14M, SLACK POLE STRUCTURE WITH STAYS FROM D.C. TAP-OFF MERLIN MAIN TO SINGLE CIRCUIT BRANCH

ALL DIMENSIONS ARE IN MILLIMETER

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14D − 14 Meter Steel Pole, HDG, Double Circuit	20−SDMS−01	Page 37
02	2	Crossarm − L 100x100x12x2400mm L.G.	20−SDMS−02	Fig. 01
03	2	Brace − L 50x50x4x828mm L.G.	20−SDMS−02	Fig. 04
04	2	Brace − L 50x50x4x828mm L.G. With One End Clipped	20−SDMS−02	Fig. 04
05	1	Line Post Insulator	15−SDMS−01	Clause 4.2.8
06	6 Set	Suspension Insulator	15−SDMS−01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20−SDMS−02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20−SDMS−02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20−SDMS−02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20−SDMS−02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20−SDMS−02	Fig. 30
12	6	Strain Clamp, 3 U−Bolts Type for Merlin	20−SDMS−02	Fig. 29
13	8	Anchor Shackle	20−SDMS−02	Fig. 20
14	6	Clevis Eye Extension	20−SDMS−02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20−SDMS−02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For 170.5mm2 ACSR/AW (Merlin)	20−SDMS−02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20−SDMS−02	Fig. 07
18	1	Eye Nut For M20	20−SDMS−02	Fig. 19
19	32M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.−S.C. Two Stay Assembly	20−SDMS−02	Drw. 304
21	1 Set	Danger Sign Plate Complete With Its Accessories	20−SDMS−02	Fig. 49/50
22	22M	Anti−Climbing Device, Barbed Wire	20−SDMS−02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20−SDMS−02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20−SDMS−02	Fig. 51
25	1 Set	Pole Numbering Plates	20−SDMS−02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.124A−OC14D, 14M, SLACK POLE STRUCTURE WITH STAYS FROM D.C. TAP−OFF, MERLIN MAIN TO SINGLE CIRCUIT BRANCH

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Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14D – 14 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 37
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail (Earth Wire)	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail (Main)	20-SDMS-02	Fig. 29
13	8	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	32M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 304
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	22M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.124B-OC14D, 14M, SLACK POLE STRUCTURE WITH STAYS FROM DOUBLE CIRCUIT TAP-OFF, QUAIL MAIN TO SINGLE CIRCUIT BRANCH

DRW.125-OC15S/D, 15M, TAP-OFF FROM DOUBLE CIRCUIT INTERMEDIATE 0° STRUCTURE TO SINGLE CIRCUIT BRANCH

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

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SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 38
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	5	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	9	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	10	Anchor Shackle	20-SDMS-02	Fig. 20
15	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Support Plate	20-SDMS-02	Fig. 6
17	1	Earthwire Suspension Support	20-SDMS-02	Fig. 5
18	3	Preformed Line Post Insulator Top Tie for Merlin with Armour	20-SDMS-02	Fig. 35
19	3	Preformed Armoured Rods For 170.5mm2 ACSR (Merlin)	20-SDMS-02	Fig. 38
20	1	Preformed Armoured Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
21	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
23	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
24	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
25	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
26	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
27	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.125A-OC15S/D, 15M, TAP-OFF FROM DOUBLE CIRCUIT INTERMEDIATE 0° STRUC. TO SINGLE CIRCUIT BRANCH MERLIN MAIN TO MERLIN TAP-OFF

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 38
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07a	3	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
07b	3	Parallel Groove Compression Connector for Merlin – Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	5	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13a	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13b	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	10	Anchor Shackle	20-SDMS-02	Fig. 20
15	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
17	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
18	3	Preformed Line Post Insulator Top Tie for Merlin with Armour	20-SDMS-02	Fig. 35
19	3	Preformed Armoured Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
20	1	Preformed Armoured Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
21	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 53/53
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 49/50
23	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	
24	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
25	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
26	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
27	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.125B-OC15S/D, 15M, TAP-OFF FROM DOUBLE CIRCUIT INTERMEDIATE 0° STRUC. TO SINGLE CIRCUIT BRANCH MERLIN MAIN TO QUAIL TAP-OFF

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D - 15 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 38
02	6	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Quail - Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	5	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	9	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	10	Anchor Shackle	20-SDMS-02	Fig. 20
15	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
17	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
18	3	Preformed Line Post Insulator Top Tie for Quail with Armour	20-SDMS-02	Fig. 35
19	3	Preformed Armoured Rods For 67.44mm2 ACSR (Quail Main)	20-SDMS-02	Fig. 38
20	1	Preformed Armoured Rods For 67.44mm2 ACSR/AW (Quail Earth Wire)	20-SDMS-02	Fig. 38
21	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
23	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
24	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
25	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
26	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
27	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.125C-OC15S/D, 15M, TAP-OFF FROM DOUBLE CIRCUIT INTERMEDIATE 0° STRUC. TO SINGLE CIRCUIT BRANCH QUAIL MAIN TO QUAIL TAP-OFF

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DRW.126-OC15S/D,15M,TAP-OFF FROM DOUBLE CIRCUIT LIGHT ANGLE 1°-15° STRUCTURE WITH STAYS TO SINGLE CIRCUIT BRANCH

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 38
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	5	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	9	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	10	Anchor Shackle	20-SDMS-02	Fig. 20
15	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
17	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
18	3	Preformed Line Post Insulator Side Tie for Merlin with Armour	20-SDMS-02	Fig. 35
19	3	Preformed Armoured Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
20	1	Preformed Armoured Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
21	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
22	30M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
23	1 Set	M.V.-D.C. Two Stay Assembly	20-SDMS-02	Drw. 303
24	1 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
25	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
26	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
27	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
28	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.126A-OC15S/D,15M,TAP-OFF FROM DOUBLE CIRCUIT LIGHT ANGLE 1°-15° STRUC. W/STAYS TO S.C. BRANCH MERLIN MAIN & MERLIN TAP-OFF

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 38
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07a	3	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
07b	3	Parallel Groove Compression Connector for Merlin – Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	5	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13a	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13b	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	10	Anchor Shackle	20-SDMS-02	Fig. 20
15	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
17	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
18	3	Preformed Line Post Insulator Side Tie for Merlin with Armour	20-SDMS-02	Fig. 35
19	3	Preformed Armoured Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
20	1	Preformed Armoured Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
21	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
22	30M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
23	1 Set	M.V.-D.C. Two Stay Assembly	20-SDMS-02	Drw. 303
24	1 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
25	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
26	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
27	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
28	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.126B-OC15S/D,15M,TAP-OFF FROM DOUBLE CIRCUIT LIGHT ANGLE 1°-15° STRUC. WITH STAYS TO S.C. BRANCH MERLIN MAIN TO QUAIL TAP-OFF

Saudi Electricity Company الشركة السعودية للكهرباء

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	Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 38
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Quail – Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	5	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	9	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	10	Anchor Shackle	20-SDMS-02	Fig. 20
15	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	1	Earthwire Support Plate	20-SDMS-02	Fig. 06
17	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
18	3	Preformed Line Post Insulator Side Tie for Quail with Armour	20-SDMS-02	Fig. 35
19	3	Preformed Armoured Rods For 67.44mm2 ACSR/AW (Quail Main)	20-SDMS-02	Fig. 38
20	1	Preformed Armoured Rods For 67.44mm2 ACSR/AW (Quail Earth Wire)	20-SDMS-02	Fig. 38
21	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
22	30M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
23	1 Set	M.V.-D.C. Two Stay Assembly	20-SDMS-02	Drw. 303
24	1 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
25	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
26	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
27	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
28	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.126C-OC15S/D,15M,TAP-OFF FROM DOUBLE CIRCUIT LIGHT ANGLE 1°-15° STRUC. WITH STAYS TO S.C. BRANCH QUAIL MAIN TO QUAIL TAP-OFF

DRW.127-OC15S/D,15M,TAP-OFF FROM D.C. MEDIUM & HEAVY ANGLE 16°-90° STRUCTURE WITH STAYS TO SINGLE CIRCUIT BRANCH

ALL DIMENSIONS ARE IN MILLIMETER

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Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 38
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	15 Set	Suspension Insulator	15-SDMS-01	Page 23
06	9	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
07	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
08	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
09	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	5	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	15	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	18	Anchor Shackle	20-SDMS-02	Fig. 20
14	15	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
17	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
18	63M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
19	2 Set	M.V.-D.C. Two Stay Assembly	20-SDMS-02	Drw. 307
20	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
21	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
22	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
23	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
24	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.127A-OC15S/D,15M,TAP-OFF FROM D.C.MEDIUM & HEAVY ANGLE 16°-90° STRUC. W/STAYS TO S.C. BRANCH MERLIN MAIN TO MERLIN TAP-OFF

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 38
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	15 Set	Suspension Insulator	15-SDMS-01	Page 23
06a	6	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
06b	3	Parallel Groove Compression Connector for Merlin – Quail	20-SDMS-02	Fig. 39
07	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
08	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
09	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	5	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12a	12	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
12b	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	18	Anchor Shackle	20-SDMS-02	Fig. 20
14	15	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
16	1	Earthwire Suspension Support	20-SDMS-02	Fig. 50
17	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
18	63M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
19	2 Set	M.V.-D.C. Two Stay Assembly	20-SDMS-02	Drw. 307
20	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
21	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
22	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
23	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
24	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.127B-OC15S/D,15M,TAP-OFF FROM D.C. MEDIUM&HEAVY ANGLE 16°-90° STRUC.WITH STAYS TO S.C. BRANCH MERLIN MAIN TO QUAIL TAP-OFF

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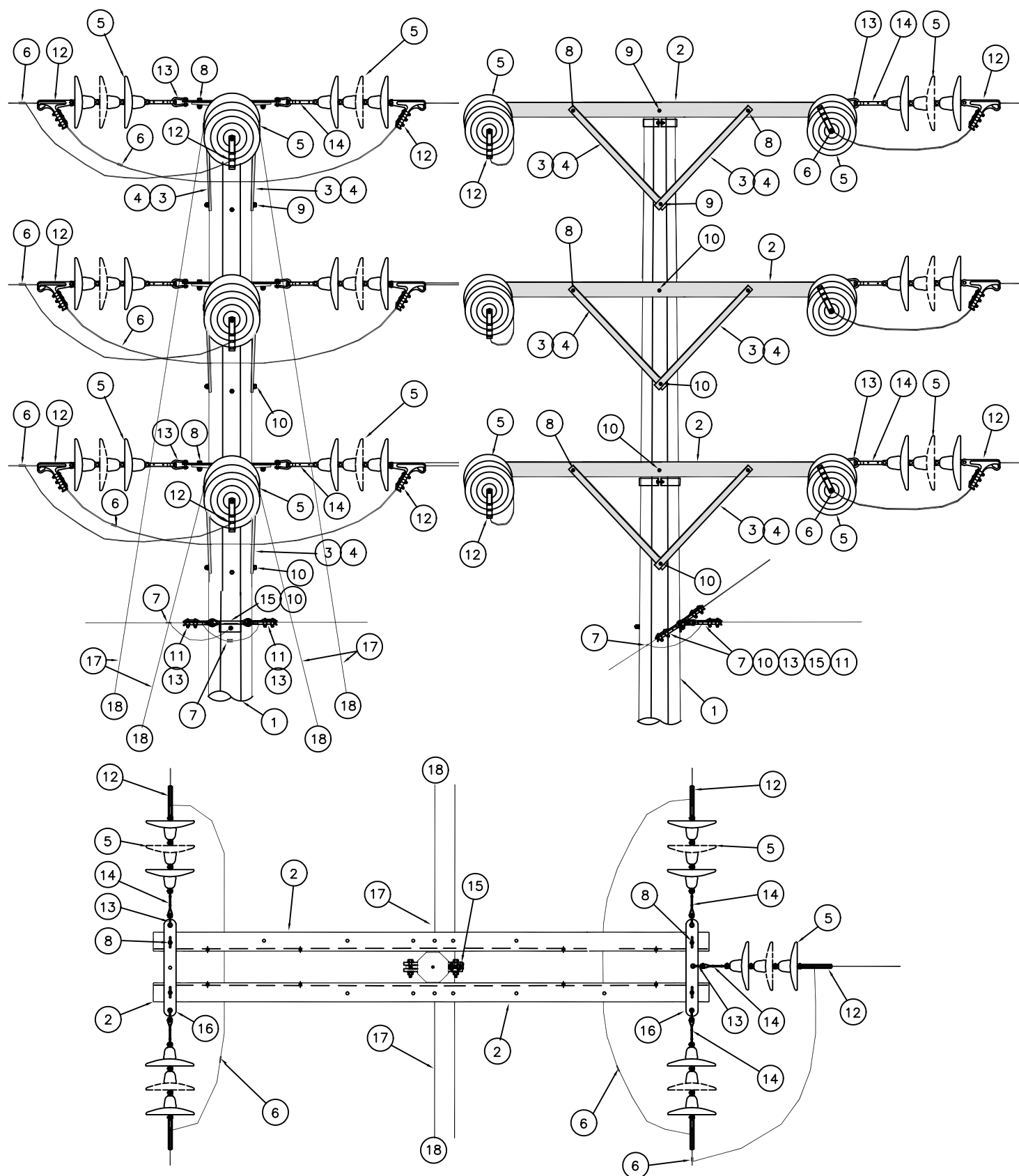
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D − 15 Meter Steel Pole, HDG, Double Circuit	20−SDMS−01	Page 38
02	6	Crossarm − L 100x100x12x2400mm L.G.	20−SDMS−02	Fig. 01
03	6	Brace − L 50x50x4x828mm L.G.	20−SDMS−02	Fig. 04
04	6	Brace − L 50x50x4x828mm L.G. With One End Clipped	20−SDMS−02	Fig. 04
05	15 Set	Suspension Insulator	15−SDMS−01	Page 23
06	9	Parallel Groove Compression Connector for Quail − Quail	20−SDMS−02	Fig. 39
07	2	Parallel Groove Compression Connector for Quail	20−SDMS−02	Fig. 39
08	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20−SDMS−02	Fig. 15
09	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20−SDMS−02	Fig. 15
10	5	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20−SDMS−02	Fig. 15
11	3	Strain Clamp, Straight Line Deadend Type for Quail	20−SDMS−02	Fig. 30
12	15	Strain Clamp, 3 U−Bolts Type for Quail	20−SDMS−02	Fig. 29
13	18	Anchor Shackle	20−SDMS−02	Fig. 20
14	15	Clevis Eye Extension	20−SDMS−02	Fig. 21
15	6	Double Arming Plate, 100x12x700mm	20−SDMS−02	Fig. 07
16	1	Earthwire Suspension Support	20−SDMS−02	Fig. 05
17	2 Set	Phasing Plates (A,B,C)	20−SDMS−02	Fig. 53/54
18	63M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
19	2 Set	M.V.−D.C. Two Stay Assembly	20−SDMS−02	Drw. 307
20	1 Set	Danger Sign Plate Complete With Its Accessories	20−SDMS−02	Fig. 49/50
21	18M	Anti−Climbing Device, Barbed Wire	20−SDMS−02	Fig. 13
22	2	Buckle Type, Locking Clip for Barbed Wire	20−SDMS−02	Fig. 13
23	1 Set	Pole Numbering Base Plate	20−SDMS−02	Fig. 51
24	1 Set	Pole Numbering Plates	20−SDMS−02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.127C−OC15S/D,15M,TAP−OFF FROM D.C. MEDIUM&HEAVY ANGLE 16°−90° STRUC. W/STAYS TO S.C. BRANCH QUAIL MAIN TO QUAIL TAP−OFF

DRW.128-OC15S/D,15M,TAP-OFF FROM DOUBLE CIRCUIT SECTION STRUCTURE TO SINGLE CIRCUIT BRANCH

ALL DIMENSIONS ARE IN MILLIMETER

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

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Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 38
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	15 Set	Suspension Insulator	15-SDMS-01	Page 23
06	9	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
07	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
08	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
09	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	5	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	15	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	18	Anchor Shackle	20-SDMS-02	Fig. 20
14	15	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
16	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
17	63M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
18	1 Set	M.V.-D.C. Section Stay Assembly	20-SDMS-02	Drw. 308
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
21	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
22	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
23	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
24	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.128A-OC15S/D, 15M, TAP-OFF FROM DOUBLE CIRCUIT SECTION STRUC. W/STAYS TO SINGLE CIRCUIT BRANCH MERLIN MAIN TO MERLIN TAP-OFF

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS	SDCS-01
	Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 38
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	15 Set	Suspension Insulator	15-SDMS-01	Page 23
06a	6	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
06b	3	Parallel Groove Compression Connector for Merlin – Quail	20-SDMS-02	Fig. 39
07	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
08	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
09	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	5	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12a	12	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
12b	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	18	Anchor Shackle	20-SDMS-02	Fig. 20
14	15	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
16	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
17	63M	Stay Wire 7/4, 12mm2 Dia. HDG Steel, UTS 101kN (Min)		
18	1 Set	M.V.-D.C. Section Stay Assembly	20-SDMS-02	Drw. 308
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
21	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
22	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
23	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
24	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.128B-OC15S/D, 15M, TAP-OFF FROM DOUBLE CIRCUIT SECTION STRUC. W/STAYS TO SINGLE CIRCUIT BRANCH MERLIN MAIN TO QUAIL TAP-OFF

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 38
02	6	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	6	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	6	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	15 Set	Suspension Insulator	15-SDMS-01	Page 23
06	9	Parallel Groove Compression Connector for Quail – Quail	20-SDMS-02	Fig. 39
07	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
08	24	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
09	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	5	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	15	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	18	Anchor Shackle	20-SDMS-02	Fig. 20
14	15	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Earthwire Suspension Support	20-SDMS-02	Fig. 05
16	6	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
17	63M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
18	1 Set	M.V.-D.C. Section Stay Assembly	20-SDMS-02	Drw. 308
19	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53/54
20	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
21	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
22	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
23	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
24	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.128C-OC15S/D, 15M, TAP-OFF FROM DOUBLE CIRCUIT SECTION STRUC. W/STAYS TO SINGLE CIRCUIT BRANCH QUAIL MAIN TO QUAIL TAP-OFF

DRW.129-OC15S/D, 15M, SLACK POLE STRUCTURE WITH STAYS FROM DOUBLE CIRCUIT TAP-OFF TO SINGLE CIRCUIT BRANCH

ALL DIMENSIONS ARE IN MILLIMETER

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 24-06-2003

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 38
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13	8	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	35M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 304
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.129A-OC15S/D, 15M, SLACK POLE STRUCTURE WITH STAYS FROM DOUBLE CIRCUIT TAP-OFF, MERLIN MAIN TO SINGLE CIRCUIT BRANCH

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC15S/D – 15 Meter Steel Pole, HDG, Double Circuit	20-SDMS-01	Page 38
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail Main)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail E.W.)	20-SDMS-02	Fig. 39
11	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
12	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
13	8	Anchor Shackle	20-SDMS-02	Fig. 20
14	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
15	1	Shoulder Eye Bolt, M20x260mm W/2 Nuts, 1 Flat & 1 Spring Washers	20-SDMS-02	Fig. 17
16	1	Preformed Line Post Insulator Top Tie For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 35
17	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
18	1	Eye Nut For M20	20-SDMS-02	Fig. 19
19	35M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
20	1 Set	M.V.-S.C. Two Stay Assembly	20-SDMS-02	Drw. 304
21	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49/50
22	18M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
23	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
24	1 Set	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
25	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.129B-OC15S/D, 15M, SLACK POLE STRUCTURE WITH STAYS FROM DOUBLE CIRCUIT TAP-OFF QUAIL MAIN TO SINGLE CIRCUIT BRANCH